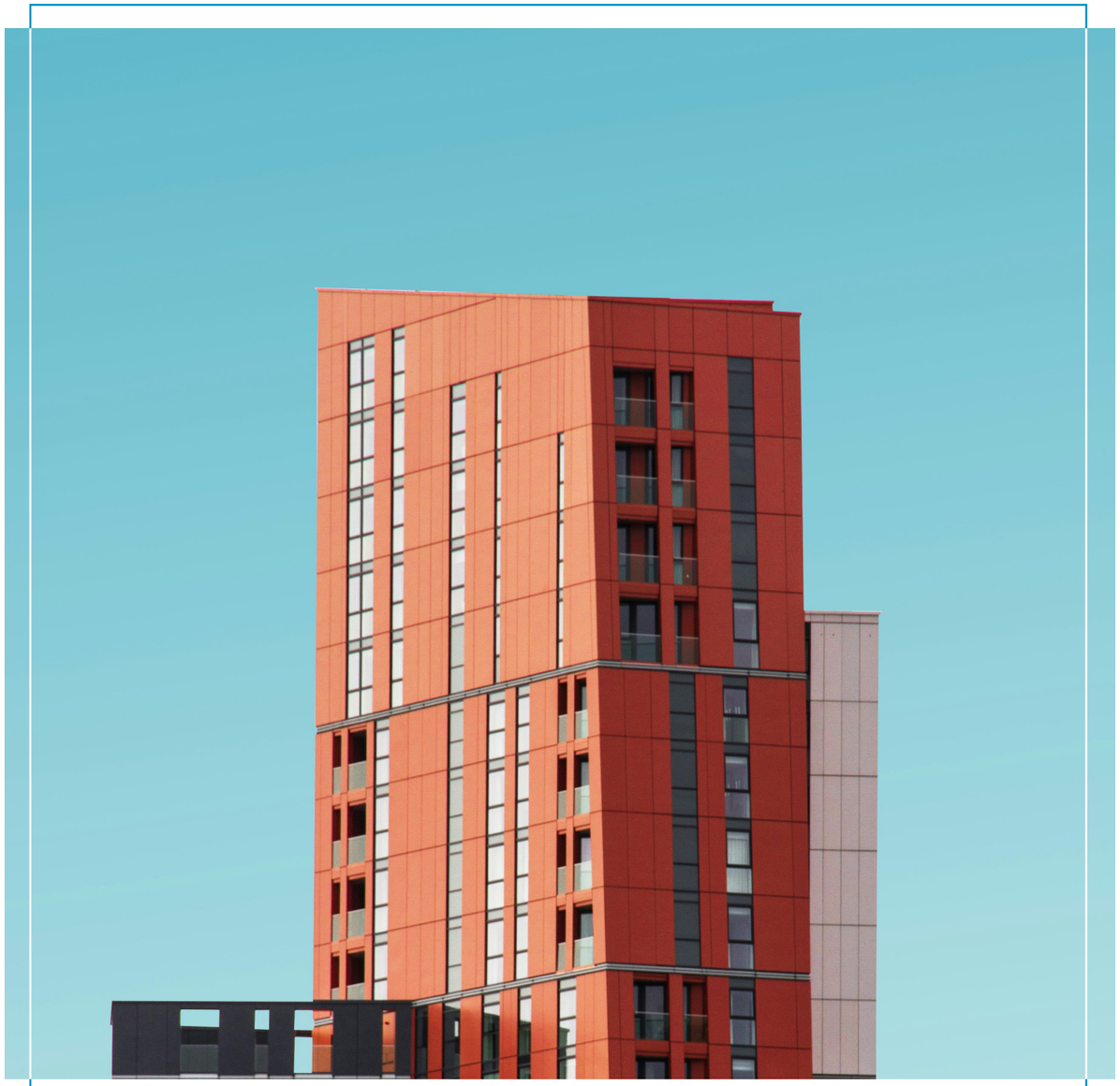
pro clima®

FORTX™ SYSTEMS

a new benchmark in façade performance

High performance façades for multi storey buildings

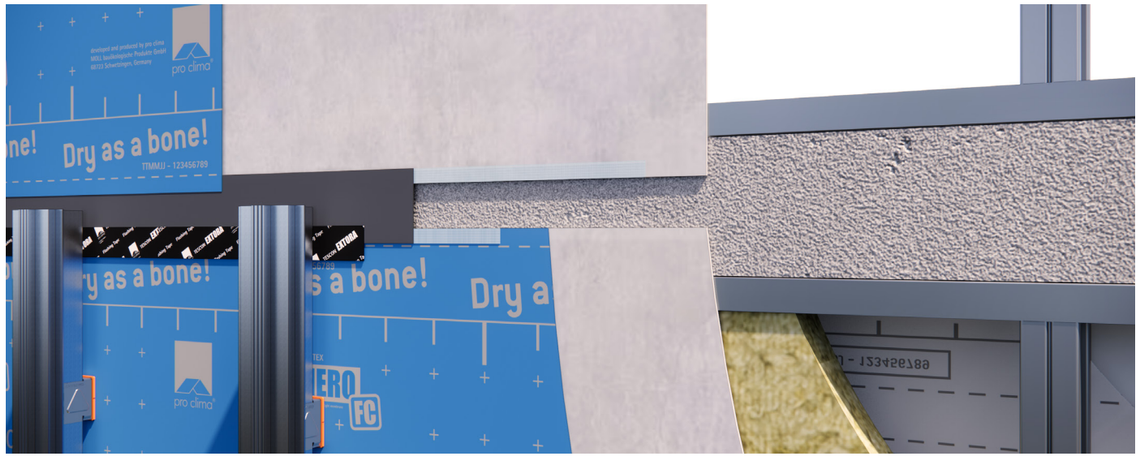


FORTX™ & FORTX™ MELIOR

pro clima's new tested façade systems

- **Removes the need for additional verification or testing**
- **Ultimate weathertightness and long-term durability**
- **Delivers advanced condensation management**
- **Maximises drying capacity within the wall system**

Design Without Limits



The new pro clima FORTX™ and FORTX™ MELIOR façade systems provide architects and specifiers with complete freedom to design aesthetically pleasing, high-performance façades. They deliver exceptional weathertightness, effective vapour control, and long-term durability. Compatible with all cladding types and racking systems, both systems leverage pro clima's proven weather resistive barriers (WRBs), tapes, and accessories to deliver continuous protection against moisture and weather exposure, with two ADHERO® WRBs options available: SOLITEX EXTASANA ADHERO® and SOLITEX® ADHERO FC.

FORTX™ and FORTX™ MELIOR systems are tested with pro clima's market leading ADHERO® WRBs and can be used over any rigid board with optional continuous exterior insulation. These systems work perfectly with applications ranging from low-rise buildings to mid and high-rise constructions across all building classes.

Tested to AS/NZS 4284 and backed by a third-party engineering report, pro clima's systems represent a significant advancement in façade performance, combining best practice in weathertightness, systemised detailing, and integrated thermal and moisture management solutions. By eliminating localised wind induced stress points, it guarantees long-term envelope durability, protecting your building against harsh weather conditions for decades. For buildings in seismic regions or buildings of critical nature, the system offers the possibility of using TFLEX flexible control joint material which is vapour permeable and fire retardant.

At the heart of this system is our commitment to ensuring every building in Australia and New Zealand is healthy, durable, and energy efficient. By combining innovative solutions with a focus on long-term performance, we're not just protecting structure, we're creating healthier, more sustainable environments for future generations.

AS/NZS 4284 results achieved without any cladding:

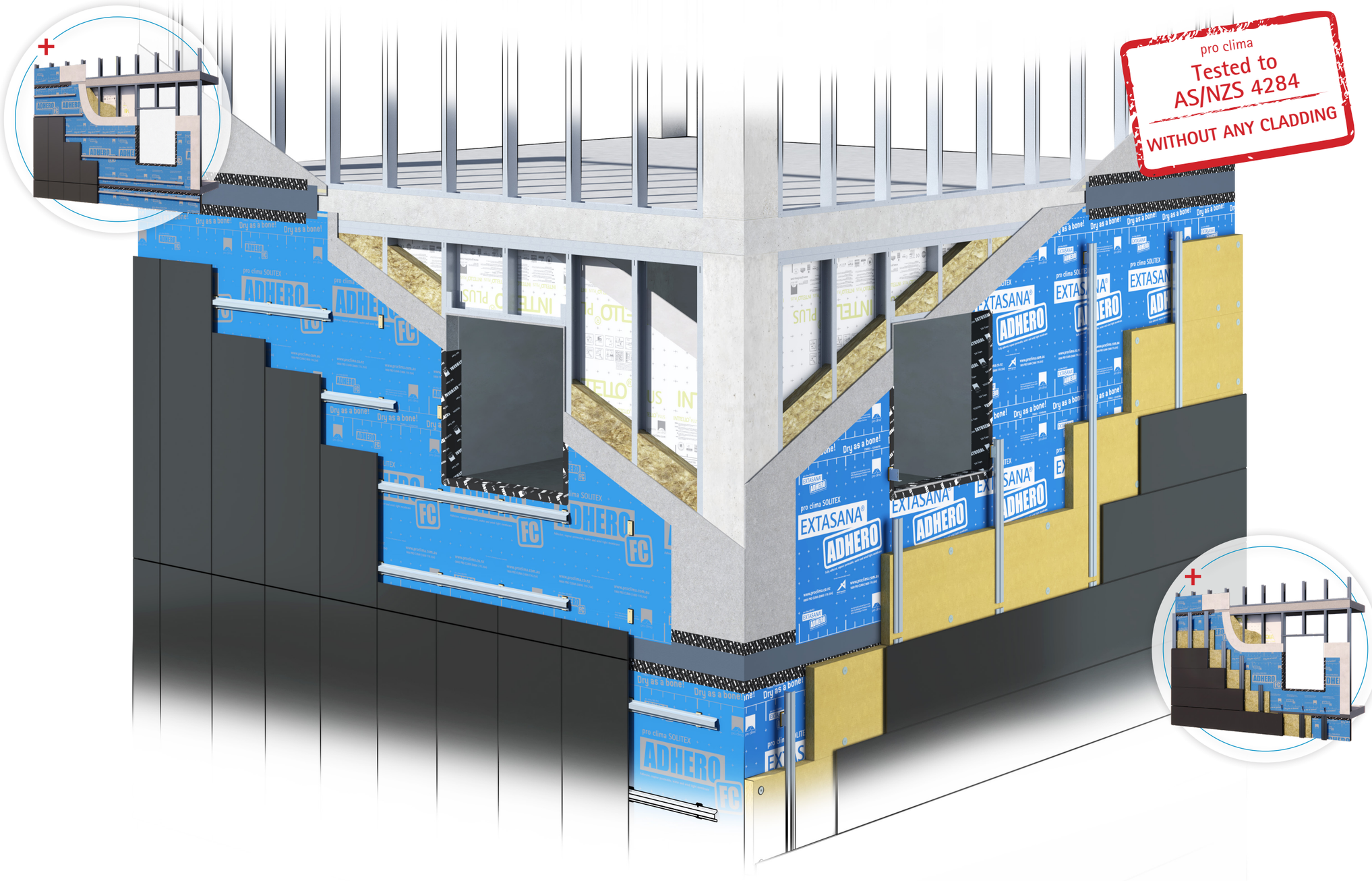
- ✔ **Serviceability Limit State (SLS):** ±3.5 kPa
- ✔ **Ultimate Limit State (ULS):** ±5.5 kPa
- ✔ **Seismic Deflection Performance:** ±20 mm (SLS) and ±75 mm (ULS)
- ✔ **Air Leakage:** <0.1L/s/m²

These systems comply with NCC 2022 F3P1 Weatherproofing requirements, delivering exceptional weather resistance in high wind-pressure and seismic regions, regardless of cladding type, and have been independently reviewed for weatherproofing assessment and NCC compliance.

Visit our website for more details and downloads
proclima.com.au/fortx
proclima.co.nz/products/fortx

AU NZ

Developed in collaboration with:
ROCKWOOL®



FORTX™ System Advantages:

- ✔ **Ultimate weatherproofing:** pro clima's ADHERO® WRBs resists wind-driven rain and pressure-induced water ingress.
- ✔ **High wind stability:** Provides a flat, fully supported and adhered WRB, ensuring consistent performance and long-term durability
- ✔ **Accommodates building movement:** TFLEX flexible control joint material suitable for seismic movement joints and interstorey transitions
- ✔ **Enhanced condensation control:** Available with both Class 3 and Class 4 Vapour permeable Weather Resistive Barriers and INTELLO® PLUS

FORTX™ MELIOR System Advantages:

- ✔ **Free from corrosion, condensation and mould:** Rigid boards stay dry, effectively controlling interstitial moisture accumulation.
- ✔ **Enhanced energy efficiency:** Minimises thermal bridging, improving overall thermal performance and comfort.
- ✔ **Increased fire safety:** Enhances fire protection when paired with ROCKWOOL™ Rainscreen™ non-combustible stone wool insulation in the cavity.
- ✔ **Improved acoustic performance:** High density ROCKWOOL™ Rainscreen™ fibrous insulation dampens external noise, improving internal comfort.
- ✔ **Plus all FORTX™ system advantages**

Raising the Bar with Higher-Performance Façades

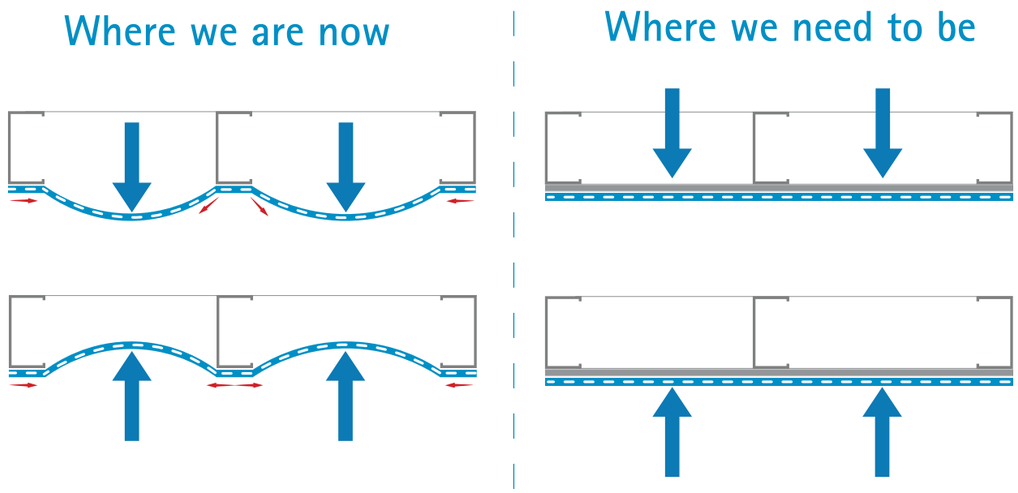
Since Australia introduced energy efficiency rules in the National Construction Code, the industry has widely adopted a common solution for lightweight construction. This involves non-combustible fibrous insulation placed between framing members, with a flexible membrane applied to the exterior of the structure. While effective in many scenarios, these traditional systems present exciting opportunities for further innovation, especially in demanding conditions like mid- and high-rise buildings.

The challenges of higher wind pressures in these applications highlight the potential for solutions that go beyond the basics to deliver superior performance in weatherproofing, energy efficiency, and condensation management. Traditional flexible membranes work well for low-rise buildings, but adhesive WRB systems over rigid substrates can handle stronger winds by limiting flex and removing stress from overlaps, penetrations, and connections. This solution prevents water leaks, protects structural integrity, and maintains the building's usability.

Repositioning insulation to the exterior of the structure is one way to address issues such as thermal bridging. When adopted, external insulation can enhance energy efficiency and help reduce the risk of condensation and mould. By tackling these challenges head-on, pro clima's new façade system improves the health, durability, and resilience of buildings, setting a new standard for commercial façades in Australia and New Zealand.

Maximising Performance with Adhesive WRBs

Flexible WRBs are widely used and provide a practical solution for many applications. However, in mid- and high-rise buildings, where wind pressures are higher and repair costs significant, traditional WRBs can loosen between fixing points under dynamic wind conditions. This loosening can lead to ballooning, flexing, and material fatigue over the building's life, creating uncertainties for designers, specifiers, contractors, developers, and homeowners.



pro clima's adhesive WRBs over any rigid board deliver:

- ✔ A quality boundary between interior spaces and the outside world.
- ✔ Reliable sealing for optimal façade performance.
- ✔ Strong resistance to wind pressure and water ingress.
- ✔ Maximum drying capacity for health and durability.

Long-Term Peace of Mind

pro clima's ADHERO® WRBs offer an exceptional solution for building envelopes, enhancing both performance and durability. By seamlessly bonding to the surface, it creates a continuous watertight layer that protects the structure from the elements, while improving airtightness and energy efficiency.

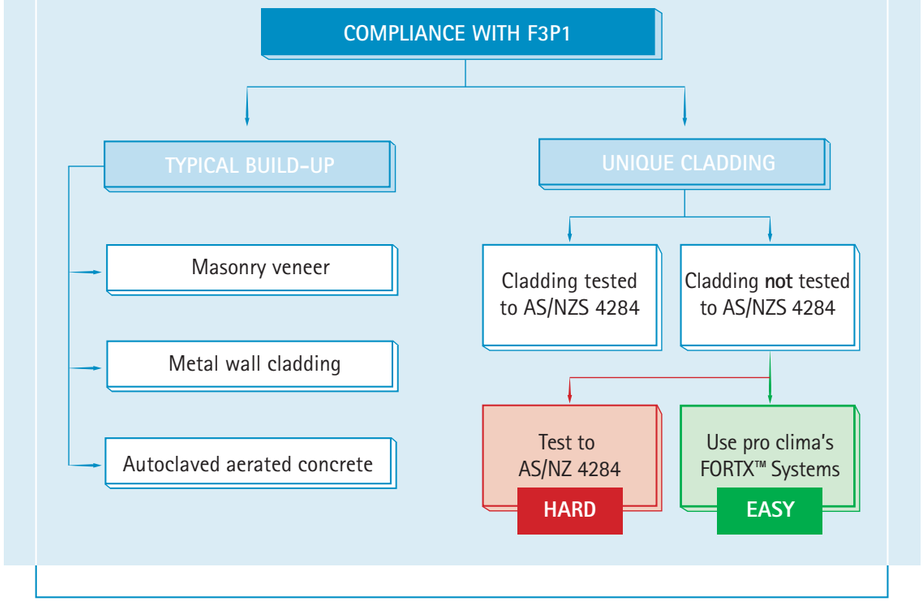
This reliable system enhances the building's resilience by maximizing drying capacity. Its highly vapour-permeable elements allow water vapour to escape freely. Additionally, pro clima components are future proof, with high temperature resistance exceeding 100°C and rated for 180 days UV exposure prior to cladding.

This innovation not only addresses traditional challenges but also sets a new benchmark for envelope integrity and resilience, offering peace of mind for all stakeholders.

Building Code Compliance Made Easy

Engineers can approve any cladding type when paired with pro clima's new façade system. Performance is backed by a third-party endorsed engineering judgement report and a NATA-accredited lab test report, eliminating the need for complex or costly verification methods.

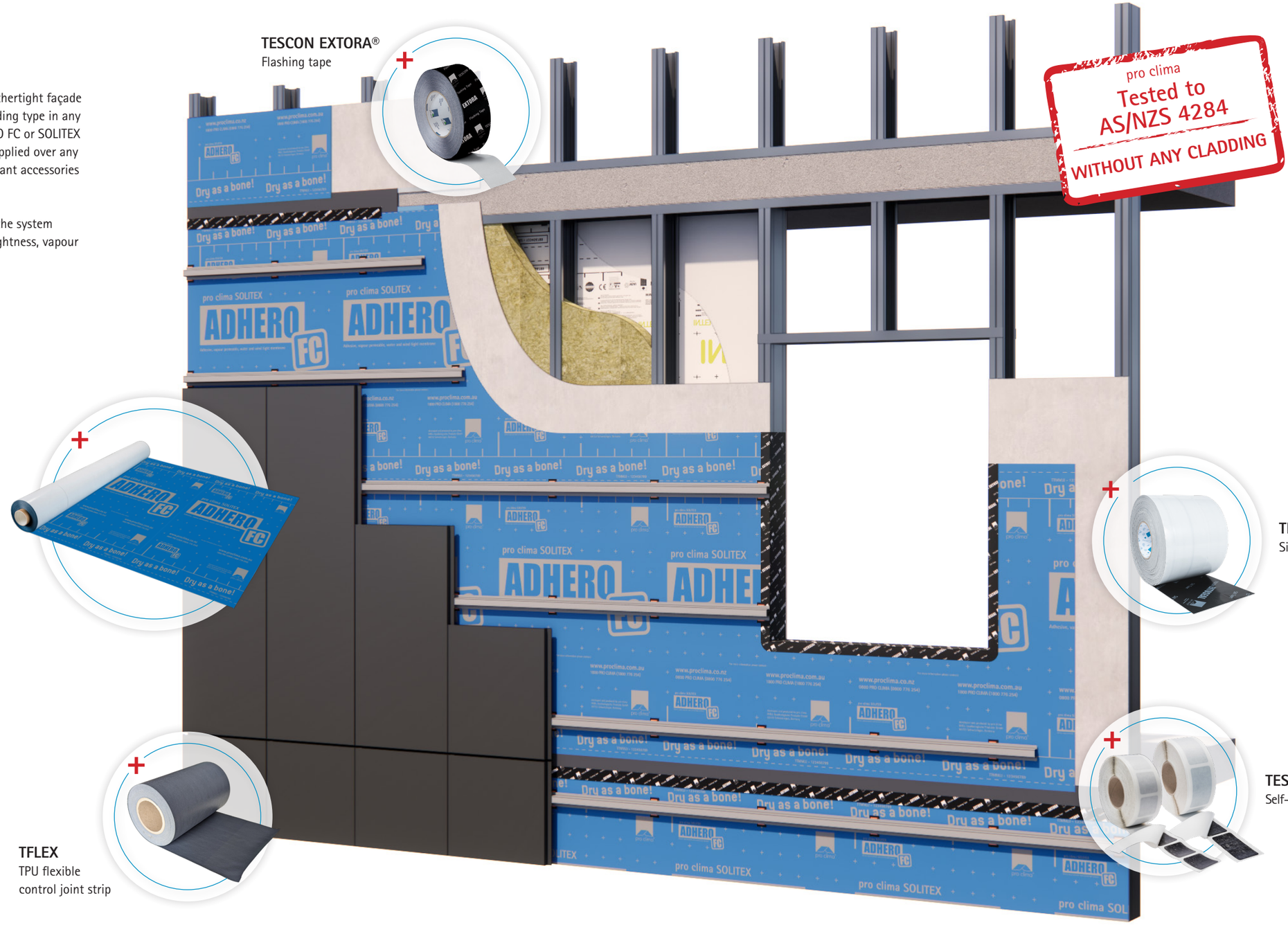
This also offers architects full freedom to design an aesthetically pleasing, weathertight façade.



FORTX™

The pro clima FORTX™ system is a weathertight façade solution suitable for use with any cladding type in any climate. It comprises SOLITEX® ADHERO FC or SOLITEX EXTASANA ADHERO® adhesive WRBs applied over any rigid substrate, combined with all relevant accessories to form a complete solution.

When combined with INTELLO® PLUS, the system provides the ultimate solution for airtightness, vapour control and healthy buildings.



TESCON EXTORA®
Flashing tape

SOLITEX ADHERO FC
Permavap® adhesive
Class 4 vapour permeable WRB

TESCON EXTOSEAL®
Sill tape

TESCON® NAIDECK patch
Self-sealing patches

TFLEX
TPU flexible
control joint strip

FORTX™ System Core Components:

DUPLEX
Double sided tape

TESCON® PRIMER RP
Solvent-free primer

PRESSFIX
Malleable plastic tool

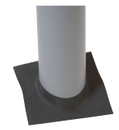
PRESSFIX XL
Large malleable plastic tool

Alternative products

SOLITEX EXTASANA ADHERO®
Adhesive Class 3 WRB

TESCON® NAIDECK
Self-sealing strip

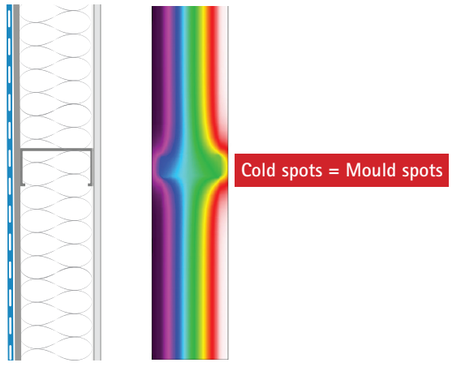
INTELLO® PLUS
Intelligent Air Barrier



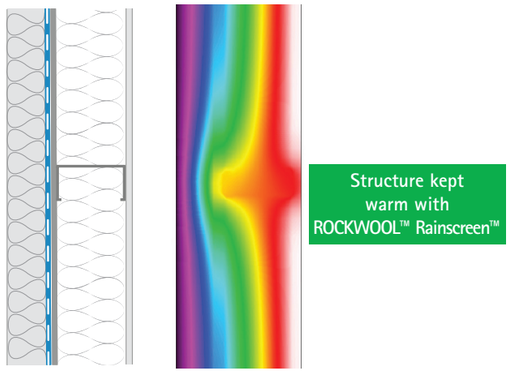
ROFLEX
Pipe penetration sealing

Boost Energy Efficiency and Mitigate Thermal Bridging

Adding insulation to the outside the building structure increases overall thermal resistance and reduces heat loss through thermal bridging. This approach significantly improves the building's thermal performance, making it easier to meet energy efficiency standards compared to traditional insulated stud frames.



Insulation between studs: R2.7
Total R-value: **R1.40**
(As per NZS 4214. 92mm studs, 600 CTC,
BMT 1.15, no noggings, any cladding)

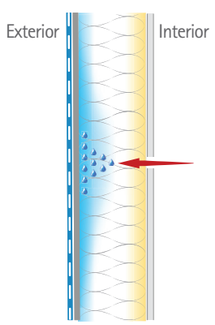


Insulation between studs: R2.7
External insulation: R1.45 (50mm)
Total R-value: **R2.85**
(92mm studs, 600 CTC, BMT 1.15, no noggings, any cladding)

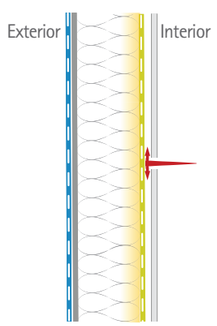
Manage Airtightness and Condensation Effectively

The NCC and NZBC require control layers on the outside of the structure to be vapour permeable. pro clima offers two options of adhesive WRBs: SOLITEX EXTASANA ADHERO® and SOLITEX® ADHERO FC. Both membranes offer differing vapour permeance properties, allowing suitable solutions for any climate or construction type. These solutions ensure long-term control of interstitial moisture and helps designers confidently meet the deemed-to-satisfy provisions of Part F8D3 Condensation management and E2/AS1.

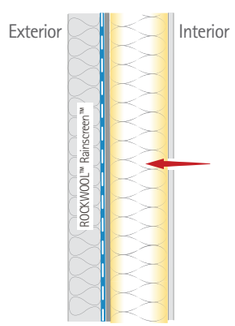
Condensation risk may be elevated by air movement transporting water vapour to the back of the external weatherproofing layer. Enhanced condensation control can be achieved using FORTX™ combined with INTELLO® PLUS Intelligent Air Barrier (IAB) on the inside of the structure to restrict air and water vapour migration. Alternatively, FORTX™ MELIOR creates a warm structure with a continuous layer of ROCKWOOL™ Rainscreen™ to prevent condensation risk.



Air transported water vapour



INTELLO® PLUS Intelligent Air Barrier



ROCKWOOL™ Rainscreen™ (Warm Structure)

The risk of moisture related damage is dependent on the climate, indoor conditions, external colour and the presence or absence of cavities and indoor ventilation. To assess the risks of mould and condensation, a hygrothermal simulation should be performed by a trained WUFI® professional: www.wufi.com.au/wufi-professionals or www.wufi.co.nz/wufi-professionals.

Designed for Long-Term Façade Durability

The FORTX™ MELIOR system includes ROCKWOOL™ Rainscreen™, a stone wool insulation developed specifically for use within ventilated cladding systems. ROCKWOOL™ Rainscreen™ is non-combustible, produces no toxic smoke, and does not promote flame spread, even when directly exposed to fire. It also supports energy efficiency without sacrificing vapour permeability and drying capacity, while maintaining reliable thermal performance and hydrophobic, moisture-repellent properties.

Improved performance with ROCKWOOL™ Rainscreen™:

- ✔ **Thermal Performance:** Complies with AS/NZS 4859.1 and meets NCC requirements, including NCC 2022 Volume 1 Section J4D3(1), NCC 2019 Volume 1 Section J1.2(a), and NCC 2019 Volume 2 Section 3.12.1.1(a), including applicable state-based variations.
- ✔ **Fire Hazard Properties:** Meets NCC 2019 Volume 1 Specification C1.10 Clause 7 and NCC 2022 Specification 7 Clause S7C7. Tested to AS 1530.3 and compliant with required Spread of Flame and Smoke Developed indices.
- ✔ **Non-Combustibility:** Complies with NCC 2022 Volume 1 C2D2 and NCC 2019 Volume 1 C1.9(a), or satisfies AS 1530.1 non-combustibility criteria.
- ✔ **Health & Safety:** Manufactured from FBS-1 stone wool, classified by Safe Work Australia as low bio-persistent Man-Made Vitreous Fibre (MMVF) in accordance with Note Q.
- ✔ **Acoustic Performance:** High-density stone wool structure provides excellent sound absorption, improving indoor acoustic comfort.
- ✔ **Water resistance:** ROCKWOOL™ stone wool insulation repels liquid water due to its fibre orientation and the presence of water-repellent additives.

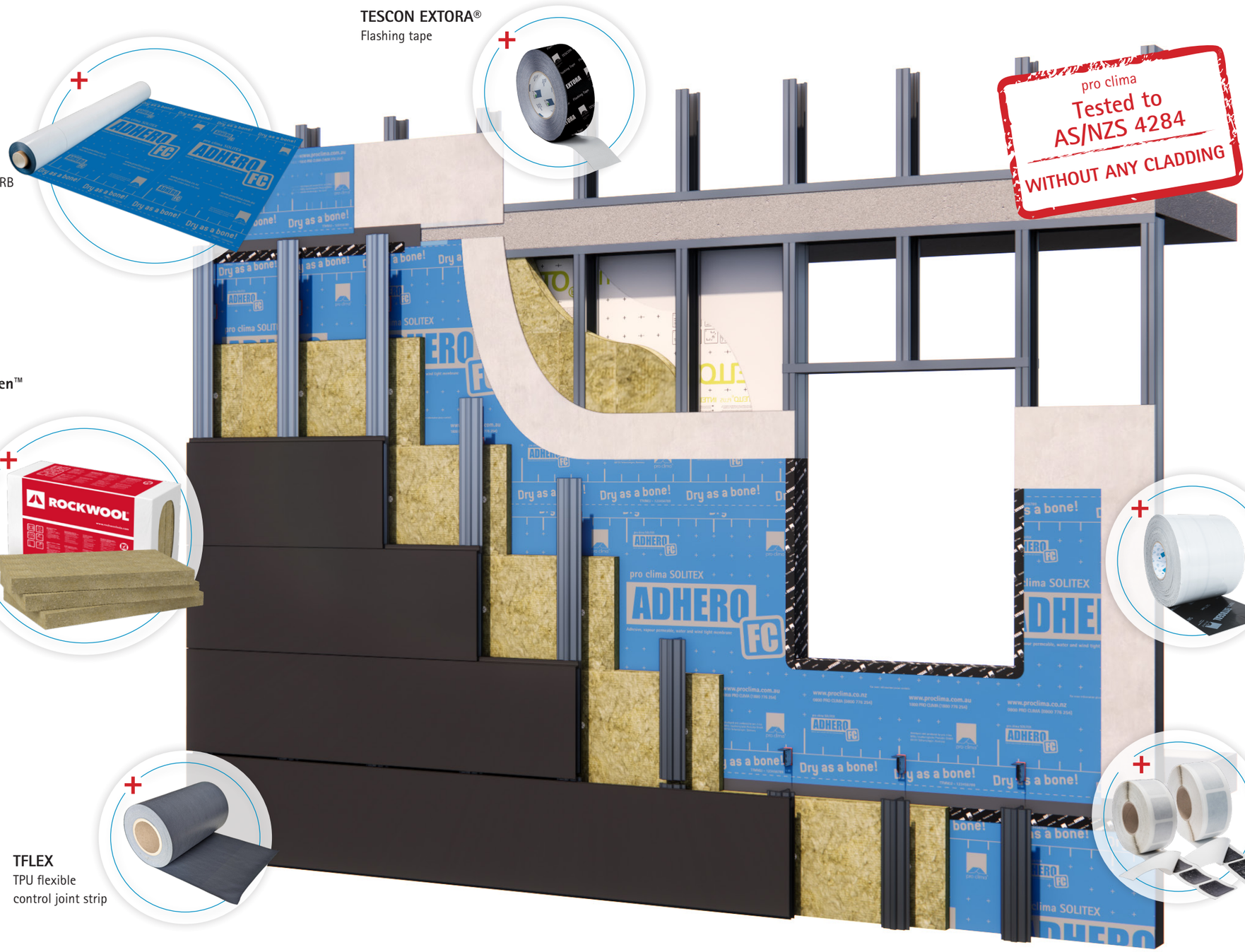
Visit https://www.rockwool.com/anz/products/categories/ventilated-facade/ for more information and downloads.

TESCON EXTORA®
Flashing tape

SOLITEX® ADHERO FC
Permavap® self-adhesive
Class 4 vapour permeable WRB

ROCKWOOL™ Rainscreen™
External insulation

TFLEX
TPU flexible
control joint strip



TESCON EXTOSEAL®
Sill tape

TESCON® NAIDECK patch
Self-sealing patches

FORTX™ MELIOR

FORTX™ MELIOR builds on the proven FORTX™ system by incorporating a non-combustible, hydrophobic layer of continuous external ROCKWOOL™ Rainscreen™ insulation, enhancing thermal performance, improving moisture management, and delivering the highest standard of façade safety and efficiency.

When combined with INTELLO® PLUS, the system provides the ultimate solution for airtightness, vapour control and healthy buildings.

FORTX™ MELIOR System Core Components:

DUPLEX
Double sided tape

TESCON® PRIMER RP
Solvent-free primer

PRESSFIX
Malleable plastic tool

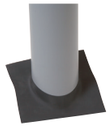
PRESSFIX XL
Large malleable plastic tool

Alternative products

SOLITEX EXTASANA ADHERO®
Self-adhesive Class 3 WRB

TESCON® NAIDECK
Self-sealing strip

INTELLO® PLUS
Intelligent Air Barrier



ROFLEX
Pipe penetration sealing

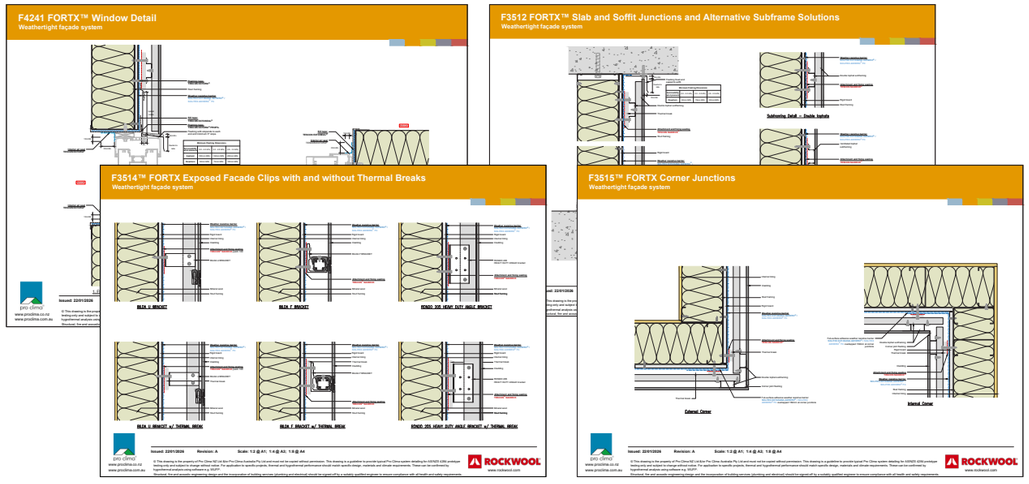
Information & Resources

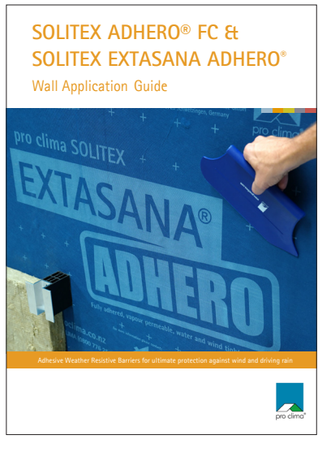
pro clima's FORTX™ & FORTX™ MELIOR façade system combines rigid boards with a fully adhered WRB to create a seamless, high performance building envelope. The system eliminates gaps, leaks and stress points while delivering reliable airtightness, water-tightness and wind resistance.

This next-generation façade protection improves thermal efficiency, reduces condensation risk, enhances fire and acoustic performance, and provides balanced vapour control to help prevent mould growth and material decay.

To learn how combining rigid boards with an adhesive WRB can deliver long-lasting protection and improved comfort for your building, get in touch with our Technical Team:
AU: https://www.proclima.com.au/fortx.
NZ: https://www.proclima.co.nz/fortx.

Explore how pro clima's advanced façade systems can support your next project: https://www.proclima.com.au/fortx.





Certification

SOLITEX® EXTASANA ADHERO®
SOLITEX® ADHERO FC
BRANZ Appraised
Appraisal No. 989

TESCON EXTORA®
BRANZ Appraised
Appraisal No. 838

TESCON EXTOSEAL®
BRANZ Appraised
Appraisal No. 815

INTELLO® PLUS
BRANZ Appraised
Appraisal No. 1149

EPD verified

Declare.

Red List Free

Visit our website for more details and downloads
proclima.com.au/fortx
proclima.co.nz/products/fortx

AU NZ

Developed in collaboration with:
ROCKWOOL®

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